

Art Unit: 1600

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Claims 1-37 have been cancelled.

--38. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence that is at least about 80% identical to the sequence of SEQ ID NO:5, wherein the polypeptide binds to LDL.

39. The nucleic acid of claim 38, wherein the amino acid sequence is at least about 90% identical to the sequence of SEQ ID NO:5.

40. The nucleic acid of claim 38, wherein the amino acid sequence is at least about 95% identical to the sequence of SEQ ID NO:5.

41. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising the sequence of SEQ ID NO:5.

42. The nucleic acid of claim 41, wherein the polypeptide consists of the sequence of SEQ ID NO:5.

43. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence that is at least about 80% identical to the sequence of SEQ ID NO:8, wherein the polypeptide binds to LDL.

44. The nucleic acid of claim 43, wherein the amino acid sequence is at least about 90% identical to the sequence of SEQ ID NO:8.

45. The nucleic acid of claim 43, wherein the amino acid sequence is at least about 95% identical to the sequence of SEQ ID NO:8.

46. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising the sequence of SEQ ID NO:8.

47. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence that is at least about 80% identical to the sequence of SEQ ID NO:44, wherein the polypeptide binds to LDL.

48. The nucleic acid of claim 47, wherein the amino acid sequence is at least about 90% identical to the sequence of SEQ ID NO:44.

49. The nucleic acid of claim 47, wherein the amino acid sequence is at least about 95% identical to the sequence of SEQ ID NO:44.

50. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising the sequence of SEQ ID NO:44.

51. The nucleic acid of claim 50, wherein the polypeptide consists of the sequence of SEQ ID NO:44.

52. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence, wherein the amino acid sequence binds to LDL and is at least about 80% identical to a portion of the sequence of SEQ ID NO:5 or SEQ ID NO:8 that binds to LDL.

53. The nucleic acid of claim 52, wherein the amino acid sequence is at least about 90% identical to a portion of the amino acid sequence of SEQ ID NO:5 or SEQ ID NO:8.

54. The nucleic acid of claim 52, wherein the amino acid sequence is at least about 95% identical to a portion of the amino acid sequence of SEQ ID NO:5 or SEQ ID NO:8.

55. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence, wherein the amino acid sequence binds to LDL and is at least about 80% identical to a portion of the sequence of SEQ ID NO:44 that binds to LDL.

56. The nucleic acid of claim 55, wherein the amino acid sequence is at least about 90% identical to a portion of the amino acid sequence of SEQ ID NO:44.

57. The nucleic acid of claim 55, wherein the amino acid sequence is at least about 95% identical to a portion of the amino acid sequence of SEQ ID NO:44.

58. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence identical to a fragment of at least ten amino acid residues of SEQ ID NO:5.

59. The nucleic acid of claim 58, wherein the polypeptide binds to LDL.

60. The nucleic acid of claim 58, wherein the amino acid sequence is identical to a fragment of at least about 20 amino acid residues of SEQ ID NO:5.

61. The nucleic acid of claim 58, wherein the amino acid sequence is identical to a fragment of at least about 30 amino acid residues of SEQ ID NO:5.

62. The nucleic acid of claim 58, wherein the amino acid sequence comprises SEQ ID NO:29 or SEQ ID NO:41.

63. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence identical to a fragment of at least ten amino acid residues of SEQ ID NO:8.

64. The nucleic acid of claim 63, wherein the polypeptide binds to LDL.

65. The nucleic acid of claim 63, wherein the amino acid sequence is identical to a fragment of at least about 20 amino acid residues of SEQ ID NO:8.

66. The nucleic acid of claim 63, wherein the amino acid sequence is identical to a fragment of at least about 30 amino acid residues of SEQ ID NO:8.

67. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence identical to a fragment of at least ten amino acid residues of SEQ ID NO:44.

68. The nucleic acid of claim 67, wherein the polypeptide binds to LDL.

69. The nucleic acid of claim 67, wherein the amino acid sequence is identical to a fragment of at least about 20 amino acid residues of SEQ ID NO:44.

70. The nucleic acid of claim 67, wherein the amino acid sequence is identical to a fragment of at least about 30 amino acid residues of SEQ ID NO:44.

71. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence, wherein the amino acid sequence binds to LDL and differs by one or more conservative amino acid substitutions from the sequence of SEQ ID NO:5 or SEQ ID NO:8.

72. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence, wherein the amino acid sequence binds to LDL and differs by one or more conservative amino acid substitutions from the sequence of SEQ ID NO:44.

73. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence, wherein the amino acid sequence binds to LDL and differs by one or more conservative amino acid substitutions from the sequence of a fragment of at least ten amino acid residues of SEQ ID NO:5 or SEQ ID NO:8.

74. The nucleic acid of claim 73, wherein the amino acid sequence differs by one or more conservative amino acid substitutions from the sequence of a fragment of at least about 20 amino acid residues of SEQ ID NO:5 or SEQ ID NO:8.

75. The nucleic acid of claim 73, wherein the amino acid sequence differs by one or more conservative amino acid substitutions from the sequence of a fragment of at least about 30 amino acid residues of SEQ ID NO:5 or SEQ ID NO:8.

76. An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence, wherein the amino acid sequence binds to LDL and differs by one or more conservative amino acid substitutions from the sequence of a fragment of at least ten amino acid residues of SEQ ID NO:44.

77. The nucleic acid of claim 76, wherein the amino acid sequence differs by one or more conservative amino acid substitutions from the sequence of a fragment of at least about 20 amino acid residues of SEQ ID NO:44.

78. The nucleic acid of claim 76, wherein the amino acid sequence differs by one or more conservative amino acid substitutions from the sequence of a fragment of at least about 30 amino acid residues of SEQ ID NO:44.

79. An isolated nucleic acid comprising a nucleotide sequence that specifically hybridizes to the sequence of SEQ ID NO:14 or SEQ ID NO:17.

80. The nucleic acid of claim 79, wherein the nucleotide sequence encodes a polypeptide that binds to LDL.

81. The nucleic acid of claim 79, wherein the nucleotide sequence is at least about 80% identical to the sequence of SEQ ID NO:14 or SEQ ID NO:17.

82. The nucleic acid of claim 79, wherein the nucleotide sequence is at least about 95% identical to the sequence of SEQ ID NO:14 or SEQ ID NO:17.

83. The nucleic acid of claim 79, wherein the nucleotide sequence comprises the sequence of SEQ ID NO:14 or SEQ ID NO:17.

84. An isolated nucleic acid comprising a nucleotide sequence that specifically hybridizes to the sequence of SEQ ID NO:46.

85. The nucleic acid of claim 84, wherein the nucleotide sequence encodes a polypeptide that binds to LDL.

86. The nucleic acid of claim 84, wherein the nucleotide sequence is at least about 80% identical to the sequence of SEQ ID NO:46.

87. The nucleic acid of claim 84, wherein the nucleotide sequence is at least about 95% identical to the sequence of SEQ ID NO:46.

88. The nucleic acid of claim 84, wherein the nucleotide sequence comprises the sequence of SEQ ID NO:46.

89. An isolated nucleic acid comprising the nucleotide sequence of SEQ ID NO:40 or SEQ ID NO:42.

90. A recombinant vector comprising the nucleic acid of claim 38.

91. A recombinant vector comprising the nucleic acid of claim 43.

92. A cell comprising the recombinant vector of claim 90.

93. A cell comprising the recombinant vector of claim 91.

94. A method of producing a polypeptide, the method comprising culturing the cell of claim 92 under conditions that permit expression of the polypeptide.

95. A method of producing a polypeptide, the method comprising culturing the cell of claim 93 under conditions that permit expression of the polypeptide.--